OPTIONAL FORM NO. 10
5010-104

UNITED STATES GOVERNMENT

Memorandum

U. S. Forest Service
P. O. Box 3623
Portland 8, Oregon

1949

5200

TO : The Record

DATE: October 4, 1963

FROM : Pete W. Orr

SUBJECT: Forest Insect and Disease Control

Brief Summary of ~~Mark's~~ Mook's 2/25/63 Ips Study on the Malheur National Forest

1. Complete kill occurred only on two percent of the "heavy" infestation area and eight percent of the "very heavy" infestation area. Most of the loss occurred in areas where less than 1/3 of the stand was killed.

2. Only twelve percent of this kill was attributed to Oregon pine ips. The other 88 percent was due to logging injury or other factors.

3. Trees killed by Oregon pine ips were replaced as follows:

Treatment	Infestation Intensity	
	Heavy	Very heavy
Thinned	19%	5%
Unthinned	71%	80%

Even in the thinned areas, many of the dead trees are replaced. These replacements are generally the suppressed crowns rather than the more desirable co-dominants or intermediate crowns.

The stand structure was changed in the "heavy" infestation area. Pines killed by Oregon pine ips were replaced by white fir and Douglas-fir.

4. Site and Oregon pine ips occurrence.

No definite correlation was found. It seems that Oregon pine ips damage was more pronounced on the lower quality sites.

Buckhorn's Oregon pine ips study (copy attached) sets forth precautions that should be observed to prevent serious ips losses.

J W Orr

Enclosure

Copy given to BH

T. M. FILE COPY